



STEAM - Rotating Compost Bin



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One of the most difficult jobs with composting is making sure you turn the compost pile thoroughly. Some people choose to use compost tumblers.

Challenge: Design and create a compost tumbler for your family. It must be easy to rotate.

For this challenge, I have identified the problem and constraints for you.

ASK

- **Problem:** How can I make a compost bin that turns?
- **Constraints:** bin must rotate
- **Gather Information:** Use these resources to help you create a compost tumbler.

[Kid Engineer: Compost Tumbler](#)

[How To Make A DIY Rotating Composter From 2 Buckets](#)

[Compost Tumbler](#)



IMAGINE

- Brainstorm: Discuss ideas for how to create a compost bin that can be turned. Write down and/or sketch every idea suggested. Remember no idea is “too silly” at this stage.

PLAN

- Choose: Pick an idea you think will work best. Describe and/or sketch your idea below.

CREATE

Make a list of the materials you will need to build your compost tumbler prototype. Remember to follow your plan. Did your idea work?-

IMPROVE

1. Did your dye process solve the problem and meet the constraints? Explain, using evidence from your test.

2. If you were given a chance to design another compost tumbler, what changes would you make?
